

FEDERAL INSPECTORS WATCH AMATEUR STATIONS

May Transit Radio Messages

By R. L. DUNCAN,
Director, Radio Institute of America
When you visit a friend who has a
transmitting set, don't start tinkering

You may make yourself liable to a heavy fine and be the cause of having the set confiscated. For none but a licensed operator may transmit radio

The government regulations are strict on this score. There is no charge by the department of commerce for the license. But a fine up to \$500 may be imposed for a violation.

THREE CLASSES

The licenses granted are for:

1. General amateur stations, permitted to use a power input of one kilowatt and operate on a wave length up to 200 meters.

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If you have passed from the trystal detector stage to that of the vacuum tube, do not throw your old set into the discard. It may be used with the larger set in one circuit.

By use of a double-pole double throw switch, you will be able to shift from one set to the other—using the old crystal detector for nearby broadcasting and the vacuum tube for more distant reception.

Hook up according to the diagram: No. 1—Loose coupler or variocoup-

distant reception.

AROUND

If you have passed from the crystal

2.-Restricted amateur stations, loeated within five miles of a naval or None But Licensed Operator military radio station, limited to a

military radio station, limited to a power input of 1.2 kilowatt and a wave length of 200 meters

3. Special amateur stations, permitted to transmit on wave lengths up to 375 meters. The applicant for this licenses must have had at least two years' experience and must prove that his operation will be of direct benefit

SWITCH CHANGES RECEIVING METHODS

mary and "B" the secondary.

WORLD IN FLASH

Around the world in a fraction of | It takes only about one-fifteenth of

That's the amazing possibilities of-from the powerful government station

fered by radio—the flashing of a message to the farthest end of the globe almost instantaneously.

Radio waves travel as fast as light

waves, sny scientists. That's 186,000 too. There are only a few others like rafles a second. Which means that a radio message sent from a point in the United States would encircle the that it is believed will be able to englobe nearly seven and one-half times circle the earth with its messages. An-

That is impossible by telegraph because there is no direct line around the earth. It takes hours to reach a point where several cables are used in transmission.

of building on Long Island, New York.

Not satisfied with the earth, scientists are said to be experimenting on apparatus that they hope may flash signals to the moon and Mars.

IS DONE BY WIRELESS

No. 2-Variable condenser of about

Second district-New York. Third district-Baltimore.

Fourth district-Norfolk, Va. Firth district—New Orleans. Sixth district—San Francisco. Seventh district—Scattle, Wash. Eighth district—Petroit. Ninth district—Chicago.

SPECIAL PERMITS iticenses must have had at least two years' experience and must prove that his operation will be of direct benefit to the science of radio.

Besides these general classes, there are several special licenses issued to universities and experimental stations.

All stations ar required to use as Even after an applicant has passed his experimental for some and the requirements.

are several special classes, there are special licenses issued to universities and experimental stations.

All stations ar required to use as little power as possible to carry on their successful communications.

Malicious and willful interference, or the sending out of false of fraudule lent distress signals are prohibited.

Applications for operators and station licenses of all classes should be made to the radio inspector of the district in which the station is located. There are nine of these districts with their headquarters in the following cities.

First district—Boston.

0005 microfarads shunted across the

No. 3-Crystal detector, galena pre-

switch for changing from the crystal to the vacuum detector or vice-versa. No. 7—Grid leak and grid con-

No. 8—Detector tube.
No. 9.—Filament rheostat.
No. 19—Six-volt "A" battery.
No. 11—A 22 1-2-volt "B" battery.

RADIO PRIMER

AT ORPHEUN TONIGHT

AMERICA OF PROMISE

SEATTLE, Wash., May 24 -- Members of the Philippine parliamentary mission, comprised of 36 distinguish-

ed statesmen of the islands, en route from Manila to Washington, D. C., are in Scattle today following their

arrival Monday night on the Keystone State, completing the

grant Philippine independence

that they promised six years ago to recognize our independence as soon

Francisco to await the arrival of

Manuel Quezon, president of the Phi-ippine senate, and Sargie Osmena, speaker of the house of representa-

DRY LAWS' EFFECTS

ON CANDY EXPLAINED

CHICAGO, May 24.—Prohibition's effect upon the candy industry was explained at Tucsday's session of the

Associated Retail Confectioners, one of the four branches of the industry

of the four branches of the industry holding simultaneous gatherings here, by Vincent L. Price of St. Louis.

"There are three kinds of drinking men." he said, "the one who drank because he had to have it, the other drank to quench his thirst and the third who imbibed for sociability. The two latter classes are the ones who have been the greatest benefit to the curdy business.

The savings bank was the greatest

movies and theatres fourth and our industry fifth."

SHEEPMEN AT WAR

candy is sold.

FILAMENT-A thin wire of tung-

No.

denser.

a second for a message to be flashed FILIPINGS REMIND

4-Small fixed condenser. 5-Head phones of high re-

6-Double-pole, double-throw

DRIVER OF OGDEN TAXI IS MISSING

So Is Passenger Who Sends Worthless Check for \$110 Here

Mystery surrounding the disappearance from Ogden more than a week ago of E. S. Kristofferson, taxicab driver for the Ogden Taxicab and Transfer company, with one of the company's machines, was deepened to-day when messages sent out by Sheriff Richard Pincock brought no results.

California town and soon determined that the check was worthless. A note from the taxi driver, which accompanied the check, stated that they were getting along o. k.

MAN OF AMASES

Answer to the overy made by Sher-

Answer to the query made by Sher-iff Pincock of California authorities is said to have been of the effect that Watson was known there and had assumed many aliases.
Since the driver and Watson left

Since the driver and wason feet Ogden, nothing has been heard from them, further than the check and the note. Inquiries sent to various towns in Utah have failed to bring any news of the couple, it is said.

Fear that Kristofferson may be under the influence of the stranger Free.

der the influence of the stranger grew today, when the car could not be traced. The driver is 22 years of age and resides at 1031 Hudson avenue, according to the officers.

according to the officers.

A message recently received from Tremonton officers to be on the look-out for a man who recently tried to put over an alleged check swindle. Hes led Sheriff Pincock to believe that "Watson" and this man are the same. The Tremonton dispatches described him as between 50 and 60 years of age, stout, and wearing leather leggins. This is said to compare well with the description of the man who hired Kristofferson to drive him to Peterson.

sten or other adopted substance for illumination by electricity in a vaccum tube. In the radio vaccum tube, the filament is used to emit millions of electrons, when lighted. This makes part of the action of a vaccum tube defector or amplifier.

"MD PASSES N"

"MS Birral Aristoricism of Peterson.

The Tremonton officers said that the man exame thore recently and hired an automobile, running up a bill of \$12. He then started negotiations for the purchase of a new car for himself And gave a check for il. The dealer, however, would not deliver the car until the validity of the check was determined, it is said. When the man found that efforts were being made to investigate the check, he disappeared from the town. Since that time the check is mid so have been found worthless.

Messages are being sent broadcast

Messages are being sent broadcast throughout Utah and western states in an effort to locate the two men and

At the Orpheum tonight, "Mr. Pim Passes By." the sparkling comedy by A. A. Mine, will be presented by A. L. Erlanger. Featured in the cast is Laura Hope Crews and other members of the original New York company are Dudley Digges, Erskine Sanford Leonard Mudle, Allson Bradshaw, Augusta Haviland, Madeleine Barr. The New York critics and the public acclaimed "Mr. Pim Passes By." the most entertaining comedy of the soason, Originally played under the auspices of the Theatre Guild this smart comedy enjoyed a run of over two hundred nights at the Garrick in New York, after its year's run in London.—Advertisement. who faces district for renomination, "I am glad to have an opportunity,"

Mr. Wilson wrote, "to express my confidence in Mr. Edward W. Pou. He has certainly been a most conscient-lous and useful member of the house and throughout my administration rendered me and the causes I believe in the most constant and generous service. In my judgment his retirement would be a serious loss to the party and ito the country."

CANCER RESEARCH lap of their journey to the national capitol to remind the United States of its promise made six years ago to FOUNDATION VOTED

"The yoke of domination no mat-ter how lightly placed is galling to a liberty loving people." said Jorge B. Vargas, director of public lands and secretary of the mission in a statement concerning the purpose of ST. LOUIS, May 24.-Establish ment of a national cancer research foundation has been voted by the American Radium society, and the Radiological society of North America, which met here in connection with the convention of the American the expedition.
"The mission comes to the United States with good will toward the Am-erican people. It is on a friendly mission to remind the United States Medical association.

Dr. Edwin C. Ernst, of St. Louis, secretary of the American Radium society, announcing the project to establish the fund for cancer research, explained that eventually it was expected all the large universities would participate in the enterprise. as stable government was provided."
The delegation will spend a few days here and will then go to San

Mrs. Caroline Boles



effit to the candy business.

"This is especially true in the smaller towns, where the candy store is a soft of social center. The whole family partakes of drinks, and more insurance Companies Always Insist

on Urinalysis. Beaverton, Oregon.—"I take great gainer by the closing of the saloons, pleasure in stating what Dr. Pierce's the soft drinks next, ice cream third. Anuric Tablets have done for me in a very severe case of bladder and kid-Mr. Price told the retailers that the consumption of confectionery last year was 14 pounds per capita, compared with 10 pounds in the pre-war My last doctor bill was \$175, and I was hundred recipes for making all kinds obtain a bond of \$25,000 and had been My last doctor bill was \$110, and I was no better. I went back to my old bome and my folks wanted me to famous CERTO process which takes Miss Gillespie had been free under bond of \$5000. PMEN AT WAR

give Dr. Peirce's Anuric Tablets a only 1 minute's boiling and never falls. For extra free copies of the CERTO Book of Recipes write Pectin Sales



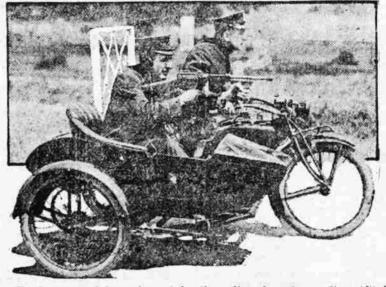
-- a step ahead in value

-men's oxfords

-here is a value that even the busiest business man can afford to take time for investigation. -sound quality, expert fitting service and low first and last cost-well, you can't beat this combination.



Radio Speeds Up Police Chase



The latest word in equipment for the police chase is a radio outfit. The Thompson sub-marine gun, firing 1000 shots a minute, does the work in stopping escaping law violators. But radiophone keeps the police in constant touch with headquarters for tips and orders to speed up the chase.

Madagascar in the use of spider web as a silk substitute.

How to Make Grape Jelly From **Bottled Grape Juice**

Inexpensive and Takes Only Ten Minutes By Ann Proctor.

You can make the finest grape jelly you ever tasted, in ten minutes, from bottled grape juice at a cost of only 7 or 8 cents for a big six-ounce glass. This jelly is much better flavored than that made by old methods requiring unripe grapes, because grape juice is pressed from ripe full-flavored grapes. This is the way to make it: Measure out 4 cups (1 qt. bettle) of grape fuice and 7 1-2 level cups (3 1-4 lbs.) of sugar into large sauce pan, stir and bring to boil. Add at once 1 bottle (scant cup) of CERTO, stirring, constantly and bring to hard boil for one minute. Remove from fire, skim and pour into glasses at once.

This makes 15 six-ounce glasses of the very finest grape jelly for only or 8 cents a glass and it is so easy even a child can do it. CERTO is pure concentrated fruit pectin (Mother Nature's Jell Maker) the use of which is so highly endorsed by government authorities and cooking experts and is obtainable from most any grocer or For extra free copies of the CERTO
Book of Recipes write Pectin Sales
Company, Inc., Dept. 182 Rochester,

N. V.

POCATELLO, Idaho, May 24.—Following the arrest of Thomas Mendibes sheepherder for the Miller Sheepherd

Success has attended experiments in PARIS HAS HOTTEST MAY DAY IN CENTURY

PARIS, May 24 -- (By the Associ-ated Press.)-Paris today experienced the hottest May day in 116 years, the thermometer hitting 94 1-10 degrees Fahrenhett in the shade at o'clock this afternoon. The city was one of many Suropean capitals to experience a similar heat wave that began sweeping western Europe, ilv days ago.

The heat here generated a pecu-liarly stifling haze, although the sky was blue throughout France. The weather bureau predicts continued heat with possibly an even higher temperature tomorrow.

The usually crowded streets were thinly peopled at moon today and there were noticeably few women on the boulevards. The cafes and beer gardens, however, did a land office business.

GENEVA, May 24—The heat wave in the Alps region has broken a 90-year record for the month of May, the thermometer at a number of points today registering 90 degrees Fahrenhelt. Snow and glacters are melting rapidly and the Ethiae and Rhone rivers are rising.

An avalancha released by the heat

An avalanche released by the heat destroyed an Albino tub house on the summit of Mount Gerginkegel. 7000 feet above sea level

GIRL AND BROTHER OF PRISONER FREED

LOS ANGELES, May 24 .- Charge of conspiracy to assist Herbert R. Wil-son, former evangelist and alleged mail robber and murderer, to escape from jail, resting against his brother. Frank Wilson, and his reputed sweet-heart, Helen Gillespie, were dismissed in the United States district court here.

Tuesday.

Frank Wilson had been unable to

These are busy day underwear section shoppers realize pays to buy good g once they have tri ingwear, their search And again-there is isfaction here of fin what you want-at you want to pay. tion a few of the

Munsing Ur Suits in All S Women's Munsing made in all styles. bodice tops, loose knee. Pink and white Sizes 34 to 52. Priced Dainty Union

With Loose I Women's closed enve suits. Shell finish, band top. All lock seam to fit and will retain fit Priced . .

Women's Suit Long Sleeves Legs

made high necks, los ankle length, fine com Bleached only. All sizes. \$1.50 and A Union Suit Looks Like

Women's fine mercer suit. Looks like silk ter than silk. Band knee. Both pink and white. All sizes Vests and Par

the Munsing Women's separate varns in all styles.

ment stamped "Monsi and white. All sizes . . Munsing Suits the Kiddie Children's Munsing I made of good quality

taped from shoulder. buttons. Loose and bloomer knee. All sizes Kiddies' Union That Are Re

Taped Children's taped usi-made of fine combe-Taped from shoulder. ments combined in c 1 to 12 years.

Priced Light, Airy Suits for the K Children's union suits er wing sleeve, high as sleeve low neck. Cre

All sizes. Priced \$1.00 \$1.25 Kiddies' Par Waists Stam Munsingw

Munsing panty was weight, taped button can't pull off. Also I shoulder. Can not pal out of shape. All sizes

L. D. S. Garn in Light We

79c needle weave. Bleat Light weight for wear. All sizes

Special . . and more than that in eth in Los Angeles and San

Wilson also is charged so ing to break jail and m

An Unfailing Way To Banish

Here's a home product of the highest merit and the greatest economy. Think of it-you get full 12 ounces of pure tomato catsup for 10c-it's absolutely pure because it's packed under the "Seal of Inspection" and bears the Pierce label, which means

That is impossible by telegraph be-

that it's made of the finest ingredients. Pierce's Tomato Catsup centains no embalming fluids or other deleterious preservatives, that's why we ask you to empty the contents into a bottle and keep in the refrigerator.

Use Pierce's Tomato Catsup abundantly - it stimulates the appetite and aids digestion and you save 20c to 30c on ev. ery purchase. Start using Pierce's Catsup today, it makes meals taste better Say Pierce's to your gro-







other similar station is in the process

Demand _ PIERCE 109 CATSUP

